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[1. d: Discovery and/or Development of Non-PGM Catalysts for PEM- and AEM-Fuel Cells and Electrolyzers](#)

Release Date: 08-12-2013 Open Date: 08-12-2013 Due Date: 10-15-2013 Close Date: 10-15-2013

DOE is seeking novel transformative research demonstrating potential to lead to the development of next generation non-precious group metal (PGM) oxygen reduction reaction (ORR) catalysts for polymer electrolyte membrane fuel cells (PEMFCs), bifunctional oxygen evolution reaction (OER)-ORR catalysts for reversible PEMFCs, hydrogen oxidation reaction (HOR) and ORR catalysts for alkaline membrane fu ...

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[2. e: Photo- and Electrochemical Conversions in Especially High Heat Transfer Chemical Contacting Schemes](#)

Release Date: 08-12-2013 Open Date: 08-12-2013 Due Date: 10-15-2013 Close Date: 10-15-2013

This subtopic solicits new conversion processes involving photo and electrochemical catalysis that use a liquid or vapor contacting scheme that provides extremely high heat and mass transfer rates, such as microchannel chemical reactors. The strategy behind such contacting schemes is the conversion efficiencies possible with heat transfer rates high enough to limit hazardous potential of chemical ...

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[3. f: Other](#)

Release Date: 08-12-2013 Open Date: 08-12-2013 Due Date: 10-15-2013 Close Date: 10-15-2013

In addition to the specific subtopics listed above, the Department invites grant applications in other areas that fall within the scope of the topic description above.

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[4. 13: MEMBRANES AND MATERIALS FOR ENERGY EFFICIENCY](#)

Release Date: 08-12-2013 Open Date: 08-12-2013 Due Date: 10-15-2013 Close Date: 10-15-2013

Separation technologies recover, isolate, and purify products in virtually every industrial process. Using membranes rather than conventional energy intensive technologies for separations could dramatically reduce energy use and costs in key industrial processes [1]. Separation processes represent 40 to 70 percent of both capital and operating costs in industry. They also account for 45 percent o ...

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[5. b: Innovative Durable Materials for Extreme Use Conditions](#)

Release Date: 08-12-2013 Open Date: 08-12-2013 Due Date: 10-15-2013 Close Date:

10-15-2013

Hydrogen is used in a broad range of applications such as petroleum refining, NH₃ and biofuels production, hydrogen fuel cell electric vehicles (FCEVs), as well as for energy storage through injection into natural gas pipelines. Use of hydrogen results in the need for innovative durable sealing materials for extreme use conditions that exhibit low hydrogen permeability and high durability in dynam ...

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6. [c: Electronic Organic Materials Research for Solid State Lighting](#)

Release Date: 08-12-2013Open Date: 08-12-2013Due Date: 10-15-2013Close Date: 10-15-2013

Advancements in Organic Light Emitting Diodes (OLEDs) have produced remarkable improvements in performance and stability since the initial introduction of white phosphorescent devices two decades ago. Like many other electronic organic materials systems that are of interest today, a number of technical hurdles remain and are the subject of the following basic research and commercialization sugges ...

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7. [d: Other](#)

Release Date: 08-12-2013Open Date: 08-12-2013Due Date: 10-15-2013Close Date: 10-15-2013

In addition to the subtopics listed above, the Department solicits applications in other areas that fall within the specific scope of the topic description above.

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8. [14: ADVANCED FOSSIL ENERGY TECHNOLOGY RESEARCH](#)

Release Date: 08-12-2013Open Date: 08-12-2013Due Date: 10-15-2013Close Date: 10-15-2013

For the foreseeable future, the energy needed to sustain economic growth will continue to come largely from hydrocarbon fuels. In supplying this energy need, however, the Nation must address growing global and regional environmental concerns, supply issues, and energy prices. Maintaining low-cost energy in the face of growing demand, diminishing supply, and increasing environmental pressure requi ...

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9. [b: Cost-Effective Interconnect Coating Process Development](#)

Release Date: 08-12-2013Open Date: 08-12-2013Due Date: 10-15-2013Close Date: 10-15-2013

Grant applications are sought to identify and develop cost-effective processes for the

application of high-quality yttria-stabilized zirconia (YSZ) coatings to SOFC interconnects in a mass production scenario. High temperature (650C to 850C) planar SOFC stacks are comprised of alternating fuel and air chambers, which are sealed from each other by the SOFC cell and interconnect plates - typicall ...

SBIR Department of Energy

10. c: Development of Enhanced Durability High-Temperature Coatings for Utility-Scale Gas Turbine Hot Gas Path Components

Release Date: 08-12-2013 Open Date: 08-12-2013 Due Date: 10-15-2013 Close Date: 10-15-2013

Grant applications are sought for the research and development of new chemistries and architectures for coating systems (Bond Coats (BC) and Thermal Barrier Coatings (TBCs)) with enhanced durability. These coatings should have suitable thermal expansion properties such that they can be used to coat metallic super-alloy components operating within advanced gas turbines with turbine inlet temperatu ...

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